

Ceropegia's of peninsular india

Ceropegia's of precidency of Madras

1)

28. *Ceropegia*, Linn.

Perennial herbs, erect or twining; rootstock a tuber or a fascicle of thick fleshy roots. *Leaves* opposite, sometimes minute or 0. *Flowers* usually moderate-sized or large, solitary in pairs or in axillary umbellate or racemose cymes, variously coloured; bracteoles often many. *Calyx* 5-partite, with 5 glandular scales within; lobes narrow. *Corolla* tubular, the tube usually more or less inflated at the base, then elongate, straight or curved, often funnel-shaped, 5-lobed; lobes valvate in bud, more or less connate at their tips; corona double, arising from the staminal column, the outer annular or cupular, entire or 5—10-toothed or of 5 bifid lobes more or less adnate to the inner of 5 short or long processes opposite to the anthers and incumbent on them or erect. *Staminal-column* short, included in the base of the tube; anthers short, erect, without appendages; pollen-masses erect or subhorizontal, waxy, with one pellucid margin, attached to the pollen-carriers by short caudicles. *Ovary* of 2 carpels; style-apex truncate or shortly conical. *Fruit* of 2 lanceolate or linear, smooth, acuminate follicular mericarps. *Seeds* usually oblong, margined, ending in a silky coma; cotyledons small or large, sometimes smaller than the thick radicle.

Stem erect, from a tuberous root; leaves linear; calyx-lobes very slender:—

Leaves rarely 1—2 in. long, usually less, crowded on a very short stem close

2)

to the ground; flowers solitary, scarcely .75 in. long, the tube of the corolla narrow from an inflated base, the lobes .2 in. long, meeting at the tips; outer corona-lobes bifid, inner linear.....1. *pusilla*.

Leaves usually 2—6 in. long, opposite on a stem 4—9 in. high; flowers solitary 1—1.5 in. long, the corolla-tube subcylindric, not inflated, the lobes about as long as the tube, narrowed downwards and having at the base a ring of purple-tipped hairs; outer corona-lobes bifid, ciliate, inner linear-spathulate

2. *fimbriifera*.

Leaves 4—8 in. long, very narrow, often curved and twisted at tip, opposite on a slender stem up to 1 ft. long; flowers solitary, 1.5—2 in. long, corolla-tube with the base slightly inflated, then cylindric, the slender lobes spirally contorted; outer corona-lobes acute, glabrous, inner filiform.....3. *spiralis*.

Stem twining, from a tuberous or fibrous fleshy root:—

Leaves fleshy, root tuberous:—

Leaves very small or 0, when present sessile, lanceolate, acute, .5—.75 in. long; flowers in 3—5-flowered umbellate pedunculate cymes, the corolla 1.5—2 in. long, tube with base slightly inflated, then funnel-shaped, lobes about as long as the tube, connate at tip; outer corona-lobes deeply bifid, ciliate, inner linear-spathulate, hooked at tip.....4. *juncea*.

Leaves very variable, linear lanceolate ovate or orbicular, rarely over 1—1.5 in. long or broad; flowers in 3—7-flowered pedunculate cymes, the corolla .5—.75 in. long, tube with base inflated then cylindric, lobes short; outer corona-lobes minute, inner linear.....5. *bulbosa*.

Leaves membranous:—

Corolla-lobes broad, forming a hemispheric or broadly conical dome over the broadly funnel-shaped mouth of the curved tube:—

Corolla-lobes with long soft ciliae at the mouth, base of tube inflated, globose or oblong and glibbous, length of corolla 1.5—2 in.; outer corona-lobes subulate, nearly as long as the inner processes; leaves ovate or lanceolate,

3)

acuminate, up to 4 in. long, 1.5 in. broad.....6. *elagens*.
Corolla-lobes without ciliae at the mouth; outer corona-lobes subulate,
shorter than the inner processes:—

Leaves ovate, acuminate, somewhat abruptly, at apex, rounded or cordate
at base, up to 2.5 in. long, 2 in. broad; corolla-tube inflated and globose
at base, then slender, then broadly funnel-shaped, corolla 1—1.5 in. long
in all.....7. *mysorensis*.

Leaves lanceolate, long acuminate at apex, acute at base, up to 3 in.
long, 1 in. broad; corolla-tube inflated and oblong at base, then slender,
then funnel-shaped, corolla 2—2.5 in. long in all.....8. *Walkeræ*.

Corolla-lobes narrow, shorter than the neck of the tube, forming a conical
ovoid or beaked crown over the not much dilated mouth of the tube:—

Leaves and peduncles glabrous:—

Crown in bud long-beaked by the connivent upper parts of the lobes,
which are free later; corolla-tube inflated and prominently veined at
base, then cylindric, whole length 1—1.5 in.; outer corona-lobes very
short, inner processes linear-clavate, connate at tip; leaves variable, ovate
orbicular or lanceolate, apiculate, up to 4 in. long, 2 in. broad

9. *tuberosa*.

Crown in bud very shortly beaked by the connivent tips of the corolla-
lobes, afterwards opened in a short dome, the lobes sometimes finally
free:—

Corollas about 1 in. long, the flowers erect in umbelliform cymes on
pendulous peduncles .75 in. long, the tube inflated below, then cylindric,
the lobes ciliate within; outer corona-lobes very small, inner processes
spathulate; leaves elliptic-ovate or -lanceolate, acuminate, apiculate, up to
4 in. long, 1.5 in. broad.....10. *Candelabrum*.

Corollas about .5 in. long, the flowers in 4—7-flowered axillary cymes on
short peduncles, under .5 in. long, the tube slightly inflated below,
then funnel-shaped, the crown short; outer corona-lobes minute, inner
long, filiform; leaves linear-lanceolate, long-acuminate, 3—4 in. long, .2—3
in. broad, broadest near the base.....11. *acuminata*.

4)

Crown in bud not beaked, the broad lobes arched and connate only by their tips, free later; corollas usually curved:—

Corollas .75—1.25 in. long, tube inflated at base, then narrowly cylindric, then funnel-shaped, the lobes .2 in. long; outer corona-lobes very small and thin, inner processes erect, spathulate; leaves ovate- or elliptic-lanceolate, sometimes linear-lanceolate, acuminate, up to 5 in. long, 2 in. broad

12. *intermedia*.

Corollas 2—2.5 in. long, tube inflated at base, then narrowed, then funnel-shaped, the lobes about .6 in. long; outer corona-lobes thin, triangular, ciliate, inner processes subulate clavate, slightly longer; leaves elliptic-ovate or -lanceolate, acuminate, up to 5 in. long, 2.5 in. broad

13. *Thwaitesii*.

Leaves and peduncles hispid-pubescent:—

Peduncles 1—5 in. long, stout, hispid, bearing very many-flowered umbelliform often branching cymes, the corolla slender, up to 1 in. long, the base of the tube slightly inflated, the lobes joining in a short oblong head; outer corona-lobes short ciliate, inner processes slender, hooked; leaves linear-ovate or -lanceolate, up to 3 in. long, .75 in. broad.....14. *ciliata*.

Peduncles .5—1 in. long, stout, few-flowered; corolla 1—1.5 in. long, tube slightly inflated below, funnel-shaped above, the lobes up to .5 in. long; outer corona-lobes 2-fid, ciliate, inner processes spathulate; leaves from narrowly linear to ovate-lanceolate, acuminate, obtuse or cordate at base, up to 4 in. long, 1.5 in. broad (much longer and narrower in var.)

15. *hirsuta*.

Corolla-lobes about as long as or longer than the neck of the tube:—

Corolla-tube much inflated at base, curved and broadly funnel-shaped upwards, the lobes narrow; corona-lobes short, ciliate, processes erect, linear:—

Leaves oblong-ovate or linear-lanceolate, acuminate, under 1.5 in. broad:—

Inflated base of corolla-tube broad, gradually narrowed into the neck; leaves linear-lanceolate, under 1 in. broad.....16. *Decaisneana*.

Inflated base of corolla-tube broad, suddenly narrowed into the neck; leaves ovate-lanceolate, over 1 in. broad.....17. *brevicollis*.

5)

Leaves ovate or ovate-cordate, acuminate, up to 5 in. long, 2 in. broad ; corolla-tube not much inflated, narrowed into the neck, the lobes long and linear.....18. *Stocksii*.

Corolla-tube not or only slightly inflated at base, narrow above and straight:—

Corolla small, pale ; flowers in fascicles on an elongate peduncled raceme:—

Corolla .5 in. long or little more, the lobes about as long as the base and neck of the tube ; outer corona-lobes short, obtuse, ciliate, inner processes linear, erect ; leaves linear, up to 6 in. long, .2 in. broad

19. *ensifolia*.

Corolla 1 in. long, the lobes about as long as the base and neck of the tube ; outer corona-lobes very short, ciliate, inner processes long, spatulate ; leaves ovate- or linear-lanceolate, up to 4 in. long, 1 in. broad

20. *albiflora*.

Corolla dark purple, 3 in. long, slender, the tube slightly inflated at base, then narrowly funnel-shaped, the slender lobes about as long as the whole tube, villous within ; outer corona-lobes short, notched, ciliate, inner processes clavate ; leaves linear-lanceolate, long acuminate, up to 6 in. long, .5 in. broad.....21. *Beddomei*.

I. CEROPEGIA PUSILLA, W. & A. in Wt. Contrib. 31 ; F. B. I. iv. 66 ; Wt. Ic. t. 1261.

W. Gháts, Nilgiris, on the grassy downs above 7,000 ft.

A minute herb with a depressed tuber about 1 in. in diam. said to be eaten and to be sought for as food by wild pigs. The corollas are pale in colour with purple stripes shading into pink on the tube and lobes. Follicles fusiform, 1.5 in. long.

6)

2. *CEROPEGIA FIMBRIIFERA*, Bedd. Ic. t. 172; F. B. I. iv. 66.
W. Gháts, Anamalais, in rocky grassy places near Tunacadavu at 3,000—4,000 ft. (Beddome).
A slender erect herb with a depressed tuber. The corollas have the tube greenish without, striped with deep purple within, and the lobes pale greenish purple, the fringe deep purple.
3. *CEROPEGIA SPIRALIS*, Wt. Ic. t. 1267; F. B. I. iv. 66.
Deccan, hills of the Cuddapah District, probably at about 2,000—3,000 ft.
A slender erect, or slightly twining herb with a depressed tuber and grass-like leaves. The corollas apparently have the base greenish outside, purplish within, the mouth purple and the twisted lobes also dark-coloured. Follicles very slender about 5 in. long.
4. *CEROPEGIA JUNCEA*, Roxb. Cor. Pl. t. 10; F. B. I. iv. 68; Wt. Contrib. 30.
N. Circars, Deccan and Carnatic and S. Travancore in dry forests. A fleshy twining plant with branched fibres from the tuberous root, which is edible. The flowers are greenish, speckled and veined with pink and purple, the follicles narrow, up to 5 in. long, long beaked, seeds with the radicle twice as long as the cotyledons. Wight remarks that he has found it growing among the branches of *Euphorbia Tirucalli*. Vern. Tel. Bella gada; Mar. Kanvel.

5. *CEROPEGIA BULBOSA*, Roxb. Cor. Pl. t. 7; F. B. I. iv. 67; Wt. Contrib. 32; Wt. Ic. t. 845.

Deccan and Carnatic, in dry localities, and especially near the coast; S. Canara and Malabar.

A fleshy twining herb with a round depressed tuber. The small flowers are greenish, the lobes purple within; the follicles very slender, 3 in. long, the radicle as long as the cotyledons and divided. The leaves and tubers are edible. Vern. *Tal. Manchi manda*.

Var. *Lushii*, Hook. f. *C. Lushii*, Grah. in Bot. Mag. t. 3300. Leaves very narrowly linear, 2—4 in. long.

Deccan, hills of Cuddapah (Beddome).

6. *CEROPEGIA ELEGANS*, Wall.; F. B. I. iv. 68; Wt. Contrib. 31, Ic. t. 1265, Spic. Nilg. t. 155.

W. Gháts, Nilgiri and Pulney Hills, at 3,000—6,000 ft.

A very pretty slender twiner, the corolla pale blue or green, spotted with purple, the tips of the lobes and the ciliae deep purple; the follicles are very slender, reaching 7—8 in. in length.

7. *CEROPEGIA MYSORENSIS*, Wt. Ic. t. 846; F. B. I. iv. 69.

Deccan, Mysore and Coimbatore, up to 3,000 ft.; hills of Tinnevely.

A slender twiner, the corolla pale green below, bluish above, and spotted with red on the funnel, the tips of the lobes deep purple to nearly black. Follicles very slender, about 6 in. long.

8. *CEROPEGIA WALKERAE*, Wt. Ic. t. 1266; F. B. I. iv. 69.

W. Gháts, in Wynaad, at about 3,000 ft.; Coorg? (Bourne).

A very slender twiner, the corolla pale blue with minute purple spots, a little like those of *C. elegans* but without the ciliae, and the dome of the corolla less depressed.

9. *CEROPEGIA TUBEROSA*, Roxb. Cor. Pl. t. 9; F. B. I. iv. 70; Wt. Contrib. 32, Ic. t. 353.

N. Circars, Deccan and Carnatic to the lower slopes of the Gháts, up to about 3,000 ft., common.

A glabrous twiner with tuberous roots giving out fleshy fibrous ones. The corolla is pale green, yellowish inside, purple at the tips of the lobes, and the follicles are very slender, up to 5 in. long, the seeds strongly margined.

10. *CEROPEGIA CANDELABRUM*, Linn.; F. B. I. iv. 70. *C. Elliottii*, Hook. f.; F. B. I. iv. 70

N. Circars, Simhachelam Hill, Vizagapatam (W. Elliot); W. Gháts, hills of Coimbatore, Nilgiris, and hills of Travancore W. Coast, S. Canara to Travancore.

A slender climber with corollas apparently green below, the tips purplish, the veins prominent; follicles linear, very slender. Rheedee, Hort. Mal. ix. t. 16, a striking picture, shows umbels with all the flowers in bloom at the same time, which is unlikely.

11. *CEROPEGIA ACUMINATA*, Roxb. Cor. Pl. t. 8; F. B. I. iv. 70; Wt. Contrib. 32. *C. discreta*, N. E. Br. in Kew Bull. 1909, 262?

Eastern Coast, cultivated in Madras (Bourne), Coimbatore?

A slender twiner growing from a flattened tuber, the corollas very small, pale, almost white, with purplish tips to the lobes. Follicles curved, 3 in. long, slender. Roxburgh says that all parts are edible. Vern. Tel. Commoo manda.

12. *CEROPEGIA INTERMEDIA*, Wt. Ic. t. 1263; F. B. I. iv. 71.

W. Gháts, from Wynaad to the Anamalais, Pulneys and hills of Travancore and Tinnevelly, at 2,000—3,000 ft.

A slender twiner from a fibrous rootstock, the corollas pale purplish below, the lobes darker, the follicles very slender and straight, 5—6 in. long.

Var. *Wightii*, Hook. f.; leaves linear lanceolate, usually under .5 in. broad, the follicles rather shorter.

Pulney Hills and hills of Tinnevelly (Wight, Bourne).

13. *CEROPEGIA THWAITESII*, Hook. Bot. Mag. t. 4758; F. B. I. iv. 71.

W. Gháts, Pulney Hills and hills of Tinnevelly and Travancore, 2,500—7,000 ft.

A rather stout twiner, the corolla pale green with purple blotches on the tube, also a purple band across the lobes and white and green above it. Follicles very long and slender, almost up to 12 in., the tips hooked; the seeds are long, the radicle thick, nearly as long as the oblong cotyledons.

14. *CEROPEGIA CILIATA*, Wt. Ic. t. 1262; Spic. Nilg. t. 154; F. B. I. iv. 72.

W. Gháts, Nilgiris at 6,000—7,000 ft., common, less so in the Anamalais and hills of Tinnevelly.

A slender hispid twiner from a round, rather flattened tuber.

the corolla pale green outside, purplish within, the lobes dark green or lead-coloured; follicles short, slender.

15. *CEROPEGIA HIRSUTA*, W. & A. in Wt. Contrib. 30; F. B. I. iv. 71.

C. vincaefolia, Hook. Bot. Mag. t. 3740.

N. Circars, in Ganjam (Fischer); Rampa Hills of Godavari (Narayanswami); W. Gháts, Nilgiri Hills (Wight), Anamalais (Beddome).

A hispid climber with tuberous roots, the corolla greenish with small purple spots, the lobes red-purple; calyx lobes long and slender; follicles narrow, 4 in. long. The leaves are very variable, running from broadly ovate to linear (in the var.).

Var. *stenophylla*, Hook. f. Leaves very narrowly linear, up to 6 in. long, 2 in. broad; corolla more purple spotted, the cone of the lobes crowned by pale and purple bands olive-green above; inner corona-processes clavate; tuber rather small, flattened-globose.

W. Gháts, Anamalais and Pulneys at 3,000—5,000 ft.

16. *CEROPEGIA DECAISNEANA*, Wt. Ic. t. 1259, Spic. Neilg. t. 152; F. B. I. iv. 73.

W. Gháts, on the Sispara Ghát, Nilgiris (Wight, Gardner).

A slender climber with tuberous root and narrow leaves, the large corolla much inflated, green with pale purple spots all over, the corona orange, tipped with purple; follicles very slender.

17. *CEROPEGIA BREVICOLLIS*, Hook. f.; F. B. I. iv. 74.
 W. Gháts, Anamalai Hills at 2,000—3,000 ft.
 A slender climber with irregularly purple-spotted corolla, very short in the neck of the tube; follicles nearly 1 ft. long, very slender.
18. *CEROPEGIA STOCKSII*, Hook. f.; F. B. I. iv. 74.
 W. Gháts, Wynaad, Anamalais and hills of Travancore at 2,000—4,000 ft., in moist forests.
 A rather large climber with corollas green shaded with purple and with purple spots on the funnel part of the tube; follicles very slender, nearly 1 ft. long.
19. *CEROPEGIA ENSIFOLIA*, Bedd. Ic. t. 173; F. B. I. iv. 75.
 W. Gháts, Anamalai Hills, in rocky places, 3,000—3,500 ft. (Beddome).
 A slender twiner with subglobose tubers, very narrow leaves, greenish-white corollas and slender follicles 6—7 in. long.
20. *CEROPEGIA ALBIFLORA*, Hook. f.; F. B. I. iv. 75.
 W. Gháts, hills of Travancore near Peermerd, 3,500 ft. (Beddome).
 A slender twiner with long-peduncled inflorescence, white corollas and more or less lanceolate leaves with very oblique nerves.
21. *CEROPEGIA BEDDOMEI*, Hook. f.; F. B. I. iv. 75.
 W. Gháts, hills of Travancore, on the Peermerd Ghát, 2,500 ft. (Beddome), hills of Cochin (Johnstone).
 A slender twiner with slender flowers, dark purple without, mottled with pale reticulations within the lobes.